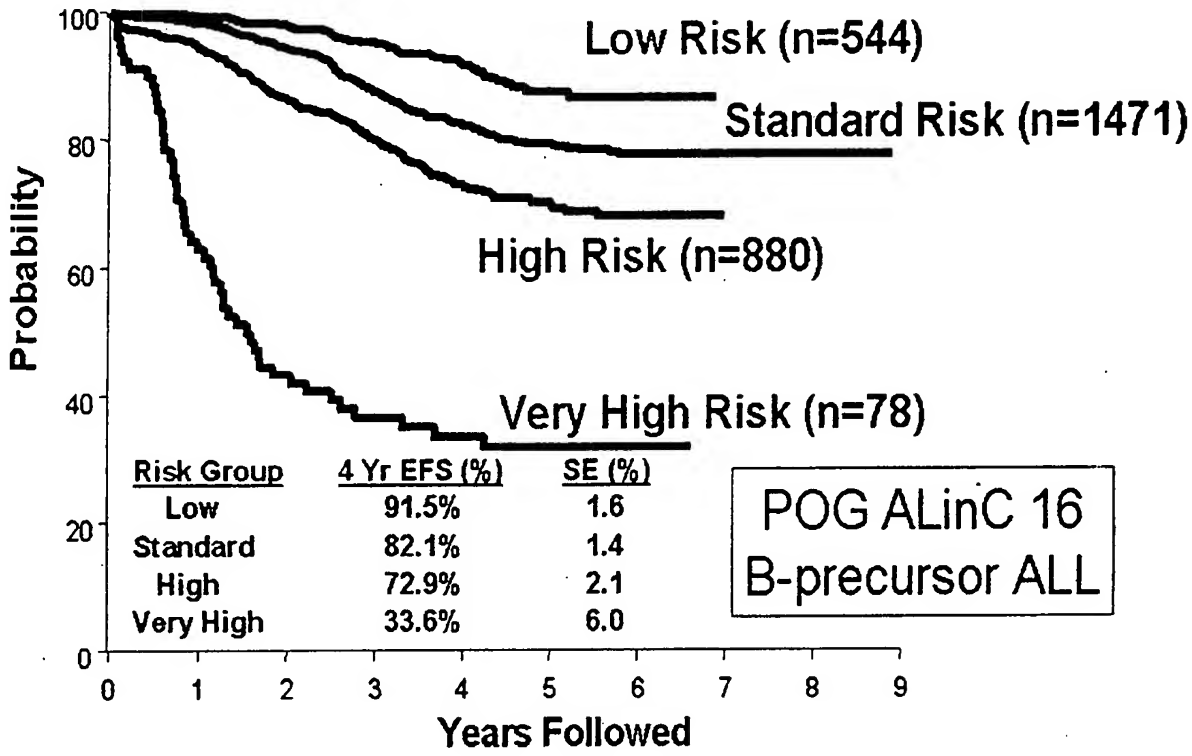
# Figure 1



# Figure 2A

***G0 with Exon 1:***

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agctacatctgtgacacaggacactgctgtggacagtctcagtgctgcaactactactat     120
 S  Y  I  C  D  T  G  H  C  C  G  Q  S  Q  C  C  N  Y  Y  Y       40

gaactctggtggttctggctggtgtggaccatcatcatcatcctgagctgctgctgtgtt     180
 E  L  W  W  F  W  L  V  W  T  I  I  I  I  L  S  C  C  C  V      60
          40
tgccaccaccgccgagccaagcaccgccttcaggcccagcagcggcaacatgaaatcaac     240
 C  H  H  R  R  A  K  H  R  L  Q  A  Q  Q  R  Q  H  E  I  N      80

ctgatcgcttaccgagaagcccacaattactcagcgctgccattttatttcaggtttttg     300
 L  I  A  Y  R  E  A  H  N  Y  S  A  L  P  F  Y  F  R  F  L     100

ccaaactatttactacctccttatgaggaagtggtgaaccgacctccaactcctccccca     360
 P  N  Y  L  L  P  P  Y  E  E  V  V  N  R  P  P  T  P  P  P     120

ccatacagtgccttccagctacagcagcagcagctgctgcctccacagtgtggccctgca     420
 P  Y  S  A  F  Q  L  Q  Q  Q  Q  L  L  P  P  Q  C  G  P  A     140

ggtggcagtcccccgggcatcgatcccaccaggggatcccaggggcacagagcagcccc     480
 G  G  S  P  P  G  I  D  P  T  R  G  S  Q  G  A  Q  S  S  P     160

ttgtctgagcccagcagaagcagcacaagacccccaagcatcgctgaccctgatccctct     540
 L  S  E  P  S  R  S  S  T  R  P  P  S  I  A  D  P  D  P  S     180

gacctaccagttgaccgagcagccaccaaagccccagggatggagcccagtggctctgtg     600
 D  L  P  V  D  R  A  A  T  K  A  P  G  M  E  P  S  G  S  V     200

gctggcctgggggagctggacccgggggccttcctggacaaagatgcagaatgtagggag     660
 A  G  L  G  E  L  D  P  G  A  F  L  D  K  D  A  E  C  R  E     220

gagctgctgaaagatgacagctctgaacacggcgcacccgacagcaaagagaagacgcct     720
 E  L  L  K  D  D  S  S  E  H  G  A  P  D  S  K  E  K  T  P     240

gggagacatcgccgcttcacaggtgactcgggcattgaagtgtgtgtgtgcaaccggggc     780
 G  R  H  R  R  F  T  G  D  S  G  I  E  V  C  V  C  N  R  G     260

caccatgacgatgacctcaaagagttcaacacactcatcgatgatgctctggatgggccc     840
 H  H  D  D  D  L  K  E  F  N  T  L  I  D  D  A  L  D  G  P     280

ctggacttctgcgacagctgccatgtgcggccccctggtgatgaggaggaaggcctctgt     900
 L  D  F  C  D  S  C  H  V  R  P  P  G  D  E  E  E  G  L  C     300

cagtcctctgaggagcaggctcgagagcctgggcacccgcacctgccacggccgcccgca     960
 Q  S  S  E  E  Q  A  R  E  P  G  H  P  H  L  P  R  P  P  A     320

tgcctgctgctgaacaccatcaacgagcaggactctcccaactcccagagcagcagctcc    1020
 C  L  L  L  N  T  I  N  E  Q  D  S  P  N  S  Q  S  S  S  S     340

cccagctagagcaggtcctgccagcacccagcaacttggcaaagcaaccagggtagggga    1080
 P  S  -                                                        342
```

# Figure 2B

***G0 with Exon 1a:***

```
atggagaggagaaggctcctgggtggcatggcgctcctgctcctccaggcgctgcccagc      60
 M  E  R  R  R  L  L  G  G  M  A  L  L  L  L  Q  A  L  P  S       20

cccttgtcagccagggctgaaccccccgcaggataaggaagcctgtgtgggtaccaacaat     120
 P  L  S  A  R  A  E  P  P  Q  D  K  E  A  C  V  G  T  N  N       40

caaagctacatctgtgacacaggacactgctgtggacagtctcagtgctgcaactactac      180
 Q  S  Y  I  C  D  T  G  H  C  C  G  Q  S  Q  C  C  N  Y  Y       60

tatgaactctggtggttctggctggtgtggaccatcatcatcatcctgagctgctgctgt      240
 Y  E  L  W  W  F  W  L  V  W  T  I  I  I  I  L  S  C  C  C       80

gtttgccaccaccgccgagccaagcaccgccttcaggcccagcagcggcaacatgaaatc      300
 V  C  H  H  R  R  A  K  H  R  L  Q  A  Q  Q  R  Q  H  E  I      100

aacctgatcgcttaccgagaagcccacaattactcagcgctgccattttatttcaggttt      360
 N  L  I  A  Y  R  E  A  H  N  Y  S  A  L  P  F  Y  F  R  F      120

ttgccaaactatttactacctccttatgaggaagtggtgaaccgacctccaactcctccc      420
 L  P  N  Y  L  L  P  P  Y  E  E  V  V  N  R  P  P  T  P  P      140

ccaccatacagtgccttccagctacagcagcagcagctgctgcctccacagtgtggccct      480
 P  P  Y  S  A  F  Q  L  Q  Q  Q  Q  L  L  P  P  Q  C  G  P      160

gcaggtggcagtcccccgggcatcgatcccaccaggggatcccaggggcacagagcagc       540
 A  G  G  S  P  P  G  I  D  P  T  R  G  S  Q  G  A  Q  S  S      180

cccttgtctgagcccagcagaagcagcacaagacccccaagcatcgctgaccctgatccc      600
 P  L  S  E  P  S  R  S  S  T  R  P  P  S  I  A  D  P  D  P      200

tctgacctaccagttgaccgagcagccaccaaagccccagggatggagcccagtggctct      660
 S  D  L  P  V  D  R  A  A  T  K  A  P  G  M  E  P  S  G  S      220

gtggctggcctgggggagctggacccgggggccttcctggacaaagatgcagaatgtagg      720
 V  A  G  L  G  E  L  D  P  G  A  F  L  D  K  D  A  E  C  R      240

gaggagctgctgaaagatgacagctctgaacacggcgcacccgacagcaaagagaagacg      780
 E  E  L  L  K  D  D  S  S  E  H  G  A  P  D  S  K  E  K  T      260

cctgggagacatcgccgcttcacaggtgactcgggcattgaagtgtgtgtgtgcaaccgg      840
 P  G  R  H  R  R  F  T  G  D  S  G  I  E  V  C  V  C  N  R      280

ggccaccatgacgatgacctcaaagagttcaacacactcatcgatgatgctctggatggg      900
 G  H  H  D  D  D  L  K  E  F  N  T  L  I  D  D  A  L  D  G      300

cccctggacttctgcgacagctgccatgtgcggcccctggtgatgaggaggaaggcctc      960
 P  L  D  F  C  D  S  C  H  V  R  P  P  G  D  E  E  E  G  L      320

tgtcagtcctctgaggagcaggctcgagagcctgggcacccgcacctgccacggccgccc     1020
 C  Q  S  S  E  E  Q  A  R  E  P  G  H  P  H  L  P  R  P  P      340

gcatgcctgctgctgaacaccatcaacgagcaggactctcccaactcccagagcagcagc     1080
 A  C  L  L  L  N  T  I  N  E  Q  D  S  P  N  S  Q  S  S  S      360

tcccccagctagagcaggtcctgccagcacccagcaacttggcaaagcaaccagggtagg     1140
 S  P  S  -                                                      363
```

# Figure 2C

TGTTTACTTTGTCTGCTTTGCTAAAGAAGGCCGGTGAACCAGGACCACCGCACACACAGG 60
CCCACCAGGGGCAATGCTCATTCCAAGACCTTAACTTTTAAGAGCCCTTTGTTCCAACGT 120
TAGTGTGGACGATGCTCTTGCAGGATGCCTTTCCTTTTGGGTCTTAGACAGGATAAGGAA 180
GCCTGTGTGGGTACCAACAATCAAAGCTACATCTGTGACACAGGACACTGCTGTGGACAG 240
TCTCAGTGCTGCAACTACTACTATGAACTCTGGTGGTTCTGGCTGGTGTGGACCATCATC 300
ATCATCCTGAGCTGCTGCTGTGTTTGCCACCACCGCCGAGCCAAGCACCGCCTTCAGGCC 360
CAGCAGCGGCAACATGAAATCAACCTGATCGCTTACCGAGAAGCCCACAATTACTCAGCG 420
CTGCCATTTTATTTCAGGTTTTTGCCAAACTATTTACTACCTCCTTATGAGGAAGTGGTG 480
AACCGACCTCCAACTCCTCCCCCACCATACAGTGCCTTCCAGCTACAGCAGCAGCAGCTG 540
CTGCCTCCACAGTGTGGCCCTGCAGGTGGCAGTCCCCCGGGCATCGATCCCACCAGGGGA 600
TCCCAGGGGGCACAGAGCAGCCCCTTGTCTGAGCCCAGCAGAAGCAGCACAAGACCCCCA 660
AGCATCGCTGACCCTGATCCCTCTGACCTACCAGTTGACCGAGCAGCCACCAAAGCCCCA 720
GGGATGGAGCCCAGTGGCTCTGTGGCTGGCCTGGGGGAGCTGGACCCGGGGGCCTTCCTG 780
GACAAAGATGCAGAATGTAGGGAGGAGCTGCTGAAAGATGACAGCTCTGAACACGGCGCA 840
CCCGACAGCAAAGAGAAGACGCCTGGGAGACATCGCCGCTTCACAGGTGACTCGGGCATT 900
GAAGTGTGTGTGTGCAACCGGGGCCACCATGACGATGACCTCAAAGAGTTCAACACACTC 960
ATCGATGATGCTCTGGATGGGCCCCTGGACTTCTGCGACAGCTGCCATGTGCGGCCCCCT 1020
GGTGATGAGGAGGAAGGCCTCTGTCAGTCCTCTGAGGAGCAGGCTCGAGAGCCTGGGCAC 1080
CCGCACCTGCCACGGCCGCCCGCATGCCTGCTGCTGAACACCATCAACGAGCAGGACTCT 1140
CCCAACTCCCAGAGCAGCAGCTCCCCCAGCTAGAGCAGGTCCTGCCAGCACCCAGCAACT 1200
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AAGCCAGCATTGAGCTAATCCTGTGGGAGGATGAGAGCTACTGGGCCGTTGTATGATAGG 1740
TTGGTAGGGGCTTGTTGATCTGTCAAATTCCAGGTGACAAGATCTATGCACCCCATGCGT 1800
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CAGCAGTGGATAGAGGTGCAGCTCTCTGCCTCTCTGCCCTTTGGTCTGTGTTCACAGGTG 2160
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ACAGGCACAAGCAAGCTGGCGTGTGGCCAGAGGTAGCCGGAGTGTGTCACAGCCCCTCAG 3480

# Figure 2C (continued)

```
ATGCCTTTCCTTCCACCTTTTTTTTTATTTTTTAAGAATCCCAAATAACTCACTGAAGTG    3540
TCTCAAAGGCGAACAAGTTTTACCAAAATGAATCCTTTTTCAGTTAACAGATCAAATGGA    3600
TGAGTTCTGAGCCTCTCAAGTTCCTTTCCCCAGTTAGAGTGGGGAACTGGGCAAGTGTTA    3660
ACTGTGGGACTCACTGCAGCGTCCTATCCTAAAGGCACGAGAAGACGGAAATGCAACCTG    3720
CGGAGCTGGGCTTGGTTCCCAGGTCACAGTTTGGCCCCCGCTACAGGATGCTGCCCTGCT    3780
CAGAGAGAGATTTAATAGGGAGCTGAAGGAATCGTTAGGGGGCCAGGGAGATGTGACTGA    3840
GGCTGGCTTTCCACGTGAATGAGACGGGGTCGGTGGAGGGTTTGGTGCTACAGCCAGTCA    3900
GAAGATTTGCAAATGCGAACACATTCCTGTGTGAGGCACGTTACCCTTTGTCAGTTATTG    3960
TGAATATGTGTATTTTAAGCAATAAGATTCAGCTGGTCAGACTTTTCTGGGCAGTCTCAG    4020
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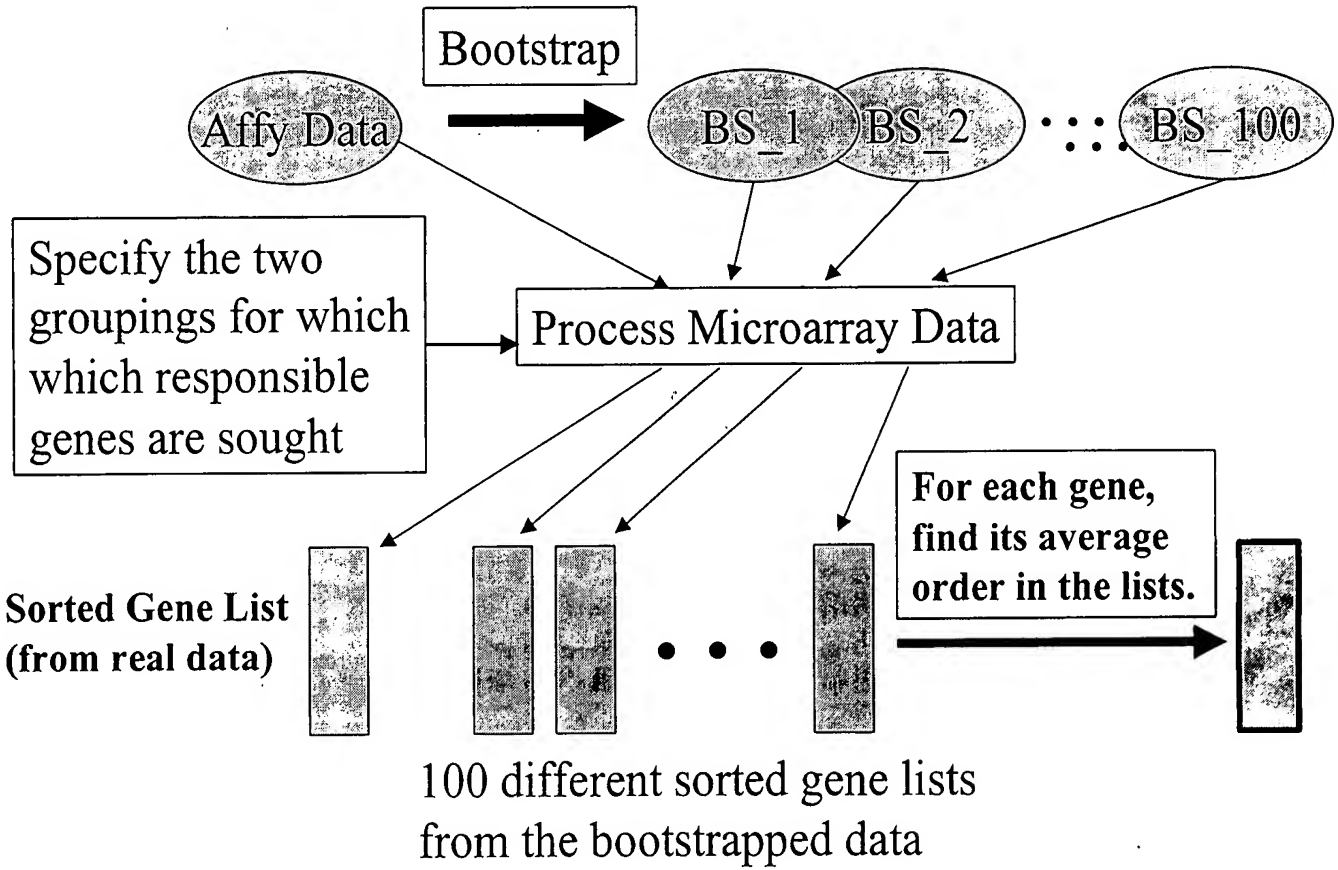

Bootstrap
Affy Data
BS_1
BS_2
BS_100
Specify the two groupings for which which responsible genes are sought
Process Microarray Data
For each gene, find its average order in the lists.
Sorted Gene List (from real data)
100 different sorted gene lists from the bootstrapped data

**Figure 3**

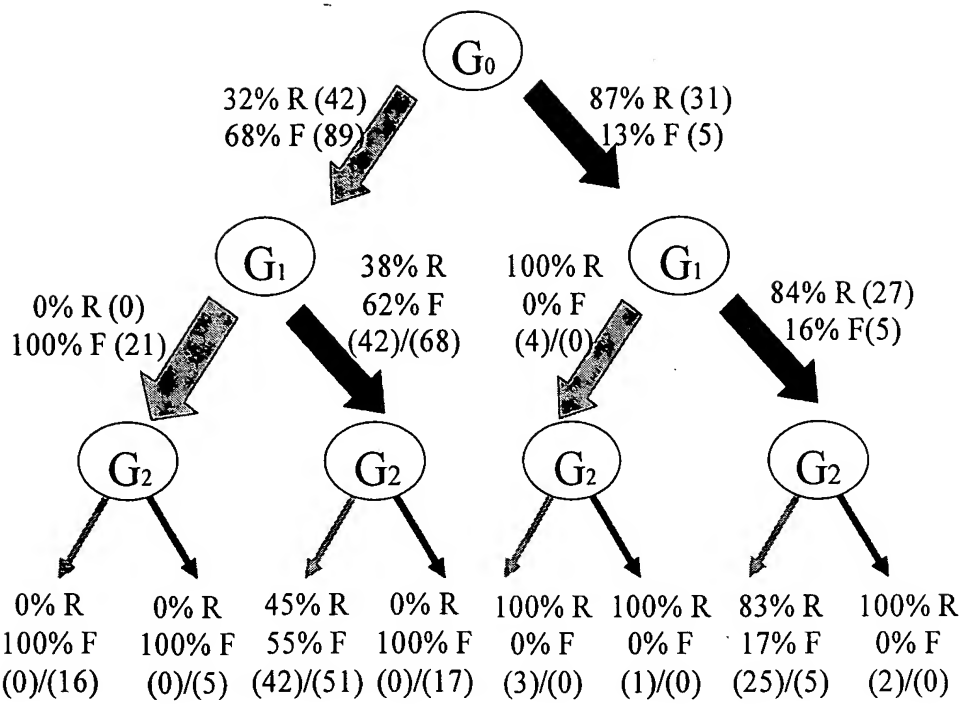
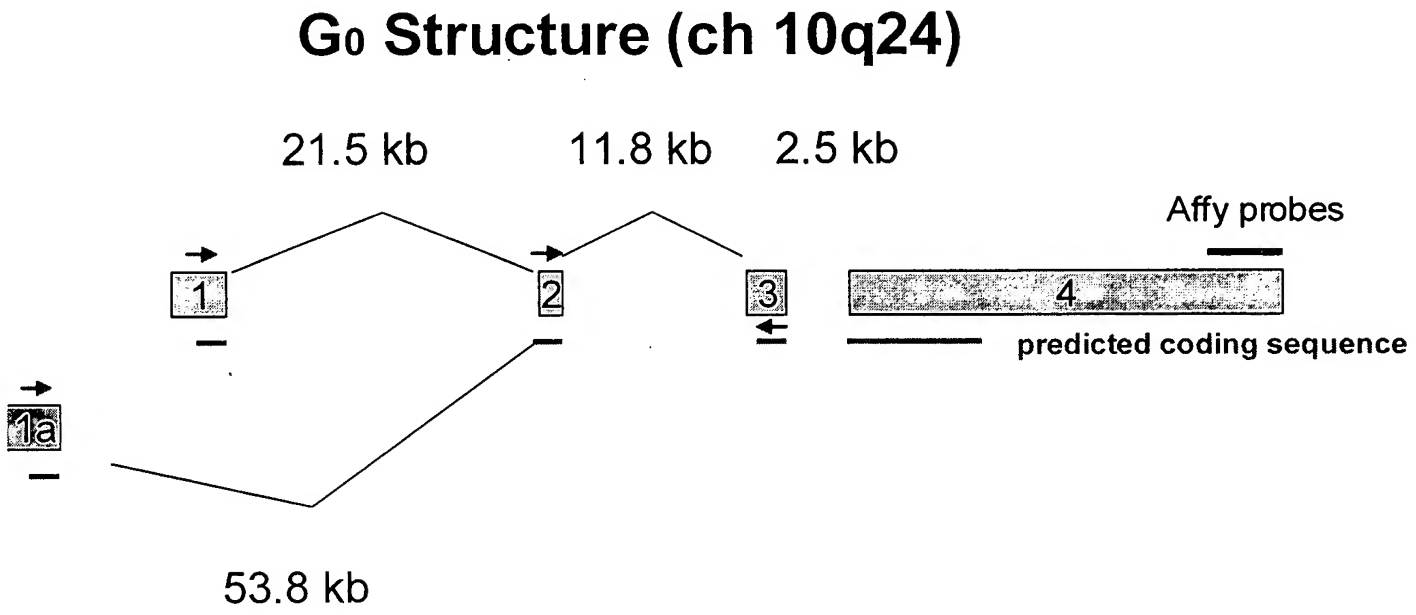

G0
32% R (42)
68% F (89)
87% R (31)
13% F (5)
G1
G1
0% R (0)
100% F (21)
38% R
62% F
(42)/(68)
100% R
0% F
(4)/(0)
84% R (27)
16% F(5)
G2
G2
G2
G2
0% R
100% F
(0)/(16)
0% R
100% F
(0)/(5)
45% R
55% F
(42)/(51)
0% R
100% F
(0)/(17)
100% R
0% F
(3)/(0)
100% R
0% F
(1)/(0)
83% R
17% F
(25)/(5)
100% R
0% F
(2)/(0)

Figure 4

**Figure 5**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11.8 kb
2.5 kb
Affy probes
1
2
3
4
predicted coding sequence
1a
53.8 kb

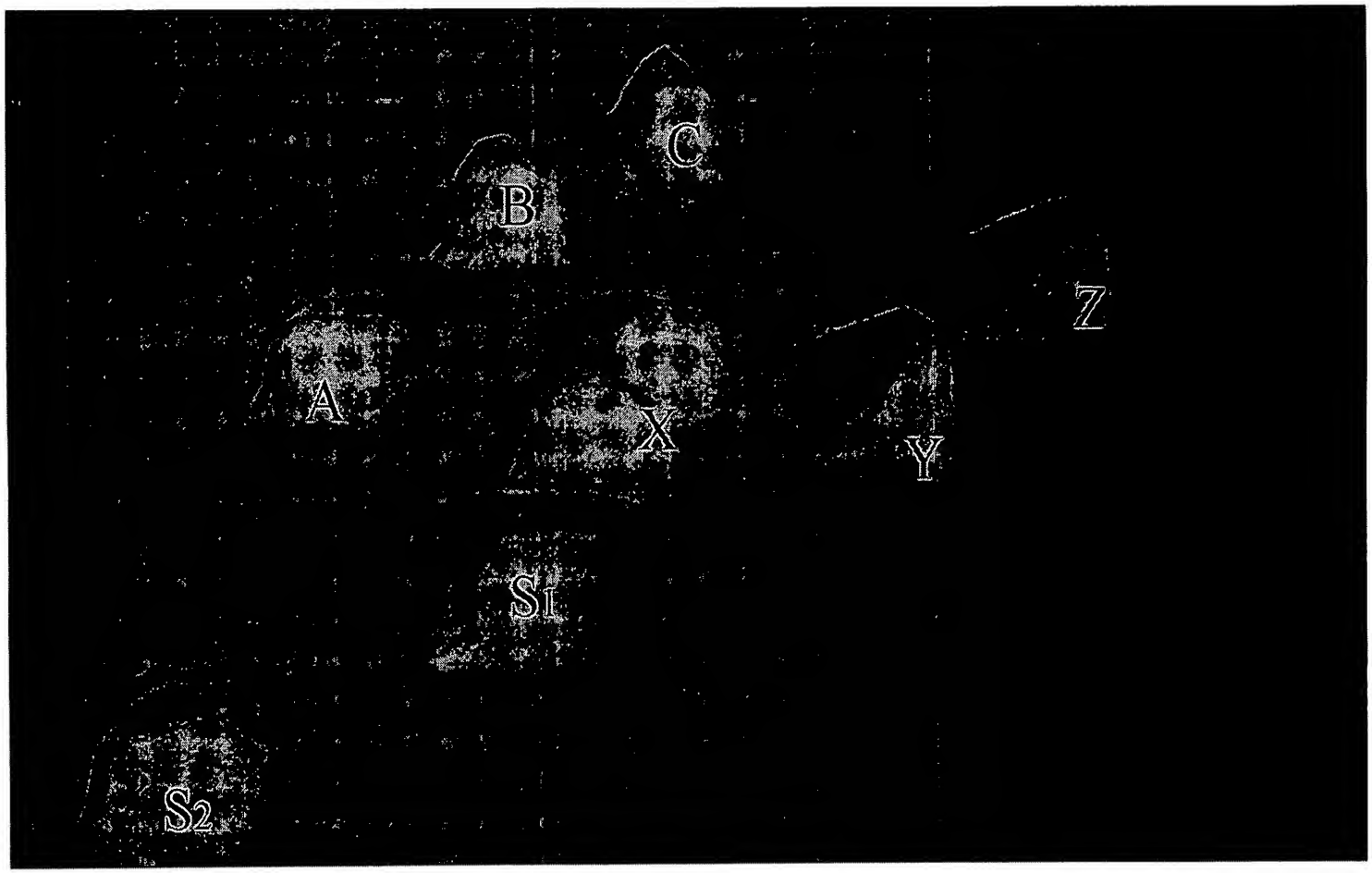



**Figure 6A**

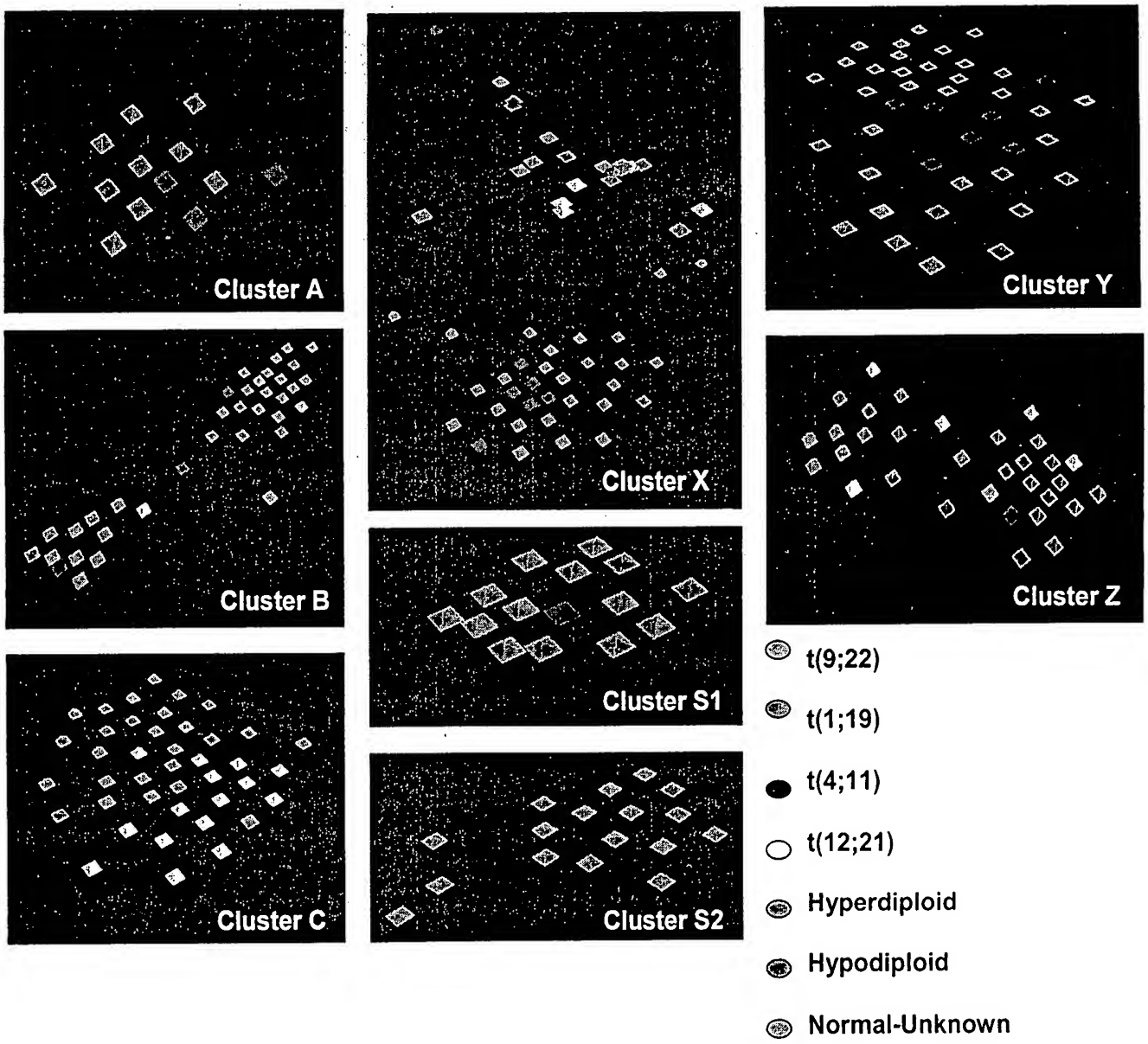
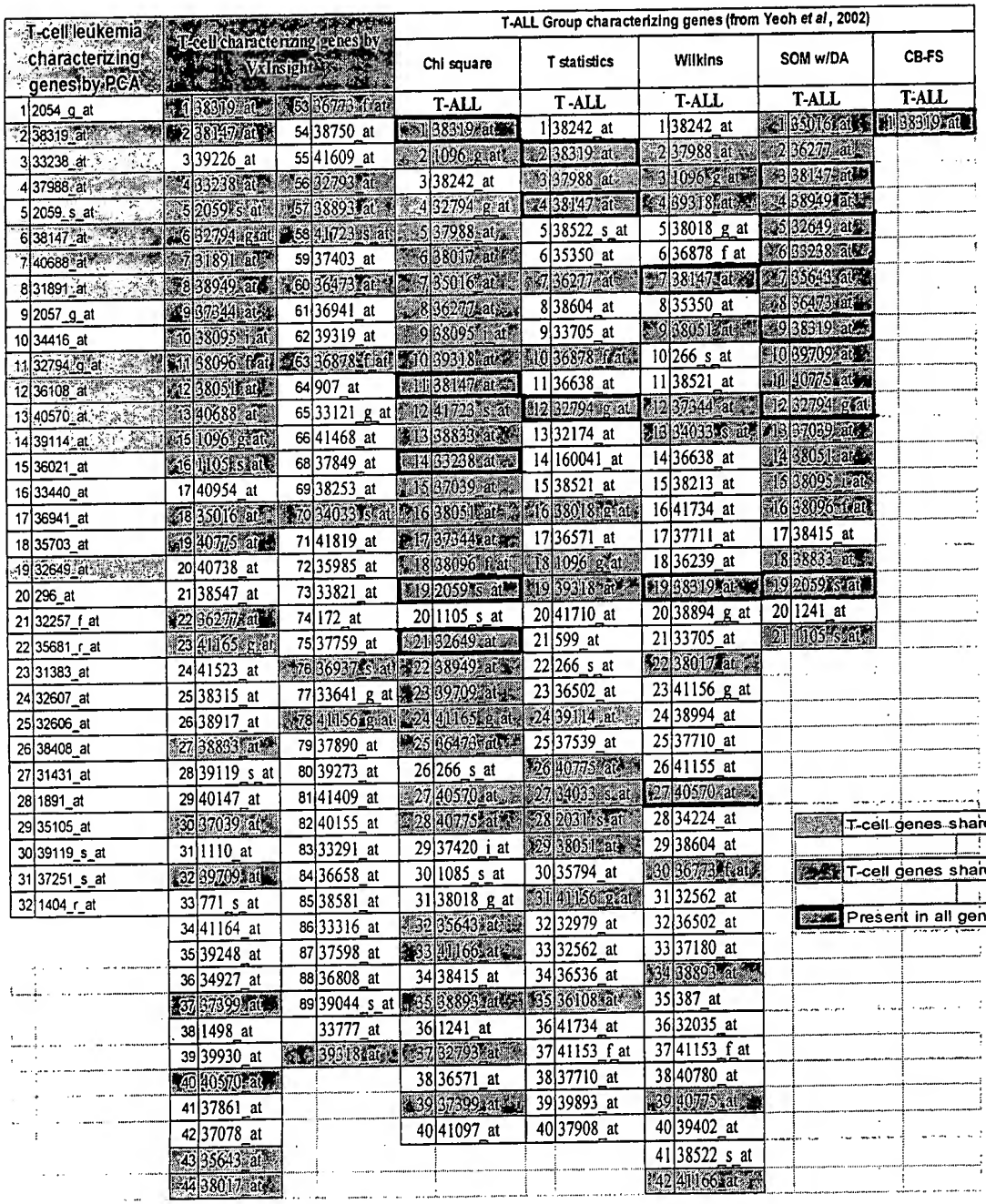

Cluster A
Cluster X
Cluster Y
Cluster B
Cluster S1
Cluster Z
Cluster C
Cluster S2
t(9;22)
t(1;19)
t(4;11)
t(12;21)
Hyperdiploid
Hypodiploid
Normal-Unknown

Figure 6B



| T-cell leukemia characterizing genes by PCA | T-cell characterizing genes by VxInsight | | | | T-ALL Group characterizing genes (from Yeoh *et al*, 2002) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Chi square | | T statistics | | Wilkins | | SOM w/DA | | CB-FS | |
| | | | | | T-ALL | | T-ALL | | T-ALL | | T-ALL | | T-ALL | |
| 1 2054_g_at | 1 | 38319_at | 53 | 36773_f_at | 1 | 38319_at | 1 | 38242_at | 1 | 38242_at | 1 | 35016_at | 1 | 38319_at |
| 2 38319_at | 2 | 38147_at | 54 | 38750_at | 2 | 1096_g_at | 2 | 38319_at | 2 | 37988_at | 2 | 36277_at | | |
| 3 33238_at | 3 | 39226_at | 55 | 41609_at | 3 | 38242_at | 3 | 37988_at | 3 | 1096_g_at | 3 | 38147_at | | |
| 4 37988_at | 4 | 33238_at | 56 | 32793_at | 4 | 32794_g_at | 4 | 38147_at | 4 | 39318_at | 4 | 38949_at | | |
| 5 2059_s_at | 5 | 2059_s_at | 57 | 38893_f_at | 5 | 37988_at | 5 | 38522_s_at | 5 | 38018_g_at | 5 | 32649_at | | |
| 6 38147_at | 6 | 32794_g_at | 58 | 41723_s_at | 6 | 38017_at | 6 | 35350_at | 6 | 36878_f_at | 6 | 33238_at | | |
| 7 40688_at | 7 | 31891_at | 59 | 37403_at | 7 | 35016_at | 7 | 36277_at | 7 | 38147_at | 7 | 35643_at | | |
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| 9 2057_g_at | 9 | 37344_at | 61 | 36941_at | 9 | 38095_i_at | 9 | 33705_at | 9 | 38051_at | 9 | 38319_at | | |
| 10 34416_at | 10 | 38095_i_at | 62 | 39319_at | 10 | 39318_at | 10 | 36878_f_at | 10 | 266_s_at | 10 | 39709_at | | |
| 11 32794_g_at | 11 | 38096_i_at | 63 | 36878_f_at | 11 | 38147_at | 11 | 36638_at | 11 | 38521_at | 11 | 40775_at | | |
| 12 36108_at | 12 | 38051_at | 64 | 907_at | 12 | 41723_s_at | 12 | 32794_g_at | 12 | 37344_at | 12 | 32794_g_at | | |
| 13 40570_at | 13 | 40688_at | 65 | 33121_g_at | 13 | 38833_at | 13 | 32174_at | 13 | 34033_s_at | 13 | 37039_at | | |
| 14 39114_at | 15 | 1096_g_at | 66 | 41468_at | 14 | 33238_at | 14 | 160041_at | 14 | 36638_at | 14 | 38051_at | | |
| 15 36021_at | 16 | 1105_s_at | 68 | 37849_at | 15 | 37039_at | 15 | 38521_at | 15 | 38213_at | 15 | 38095_i_at | | |
| 16 33440_at | 17 | 40954_at | 69 | 38253_at | 16 | 38051_at | 16 | 38018_g_at | 16 | 41734_at | 16 | 38096_i_at | | |
| 17 36941_at | 18 | 35016_at | 70 | 34033_s_at | 17 | 37344_at | 17 | 36571_at | 17 | 37711_at | 17 | 38415_at | | |
| 18 35703_at | 19 | 40775_at | 71 | 41819_at | 18 | 38096_i_at | 18 | 1096_g_at | 18 | 36239_at | 18 | 38833_at | | |
| 19 32649_at | 20 | 40738_at | 72 | 35985_at | 19 | 2059_s_at | 19 | 39318_at | 19 | 38319_at | 19 | 2059_s_at | | |
| 20 296_at | 21 | 38547_at | 73 | 33821_at | 20 | 1105_s_at | 20 | 41710_at | 20 | 38894_g_at | 20 | 1241_at | | |
| 21 32257_f_at | 22 | 36277_at | 74 | 172_at | 21 | 32649_at | 21 | 599_at | 21 | 33705_at | 21 | 1105_s_at | | |
| 22 35681_r_at | 23 | 41165_g_at | 75 | 37759_at | 22 | 38949_at | 22 | 266_s_at | 22 | 38017_at | | | | |
| 23 31383_at | 24 | 41523_at | 76 | 36937_s_at | 23 | 39709_at | 23 | 36502_at | 23 | 41156_g_at | | | | |
| 24 32607_at | 25 | 38315_at | 77 | 33641_g_at | 24 | 41165_g_at | 24 | 39114_at | 24 | 38994_at | | | | |
| 25 32606_at | 26 | 38917_at | 78 | 41156_g_at | 25 | 36473_at | 25 | 37539_at | 25 | 37710_at | | | | |
| 26 38408_at | 27 | 38833_at | 79 | 37890_at | 26 | 266_s_at | 26 | 40775_at | 26 | 41155_at | | | | |
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| 28 1891_at | 29 | 40147_at | 81 | 41409_at | 28 | 40775_at | 28 | 2031_s_at | 28 | 34224_at | | | | |
| 29 35105_at | 30 | 37039_at | 82 | 40155_at | 29 | 37420_i_at | 29 | 38051_at | 29 | 38604_at | | | | |
| 30 39119_s_at | 31 | 1110_at | 83 | 33291_at | 30 | 1085_s_at | 30 | 35794_at | 30 | 36773_f_at | | | | |
| 31 37251_s_at | 32 | 39709_at | 84 | 36658_at | 31 | 38018_g_at | 31 | 41156_g_at | 31 | 32562_at | | | | |
| 32 1404_r_at | 33 | 771_s_at | 85 | 38581_at | 32 | 35643_at | 32 | 32979_at | 32 | 36502_at | | | | |
| | 34 | 41164_at | 86 | 33316_at | 33 | 41166_at | 33 | 32562_at | 33 | 37180_at | | | | |
| | 35 | 39248_at | 87 | 37598_at | 34 | 38415_at | 34 | 36536_at | 34 | 38893_at | | | | |
| | 36 | 34927_at | 88 | 36808_at | 35 | 38893_at | 35 | 36108_at | 35 | 387_at | | | | |
| | 37 | 37399_at | 89 | 39044_s_at | 36 | 1241_at | 36 | 41734_at | 36 | 32035_at | | | | |
| | 38 | 1498_at | | 33777_at | 37 | 32793_at | 37 | 41153_f_at | 37 | 41153_f_at | | | | |
| | 39 | 39930_at | | 39318_at | 38 | 36571_at | 38 | 37710_at | 38 | 40780_at | | | | |
| | 40 | 40570_at | | | 39 | 37399_at | 39 | 39893_at | 39 | 40775_at | | | | |
| | 41 | 37861_at | | | 40 | 41097_at | 40 | 37908_at | 40 | 39402_at | | | | |
| | 42 | 37078_at | | | | | | | 41 | 38522_s_at | | | | |
| | 43 | 35643_at | | | | | | | 42 | 41166_at | | | | |
| | 44 | 38017_at | | | | | | | | | | | | |

T-cell genes shared between PCA & Yeoh *et al*, 2002

T-cell genes shared between VxInsight (ANOVA) and Yeoh *et al*, 2002

Present in all gene lists (PCA, VxInsight and Yeoh *et al*, 2002)

**Figure 7**

| Bayesian (122) | |
|---|---|
| 1 | 35362_at |
| 2 | 1325_at |
| 3 | 1077_at |
| 4 | 34194_at |
| 5 | 32730_at |
| 6 | 34745_at |
| 7 | 37986_at |
| 8 | 40570_at |
| 9 | 40272_at |
| 10 | 2036_s_at |
| 11 | 35940_at |
| 12 | 41097_at |
| 13 | 39931_at |
| 14 | 31472_s_at |
| 15 | 32227_at |
| 16 | 37280_at |
| 17 | 36524_at |
| 18 | 39824_at |
| 19 | 35260_at |
| 20 | 35614_at |
| 21 | 37497_at |
| 22 | 41814_at |
| 23 | 1980_s_at |
| 24 | 36008_at |
| 25 | 36638_at |
| 26 | 40367_at |
| 27 | 32163_f_at |
| 28 | 755_at |
| 29 | 32724_at |

| Yeoh et al (122) | |
|---|---|
| 1 | 38652_at |
| 2 | 36239_at |
| 3 | 41442_at |
| 4 | 37780_at |
| 5 | 36985_at |
| 6 | 38578_at |
| 7 | 38203_at |
| 8 | 35614_at |
| 9 | 32224_at |
| 10 | 32730_at |
| 11 | 35665_at |
| 12 | 1077_at |
| 13 | 36524_at |
| 14 | 34194_at |
| 15 | 36937_s_at |
| 16 | 36008_at |
| 17 | 1299_at |
| 18 | 41814_at |
| 19 | 41200_at |
| 20 | 35238_at |
| 21 | 880_at |
| 22 | 33690_at |
| 23 | 40272_at |
| 24 | 35362_at |
| 25 | 41819_at |
| 26 | 40279_at |
| 27 | 1488_at |
| 28 | 1325_at |
| 29 | 37908_at |
| 30 | 769_s_at |
| 31 | 33415_at |
| 32 | 1980_s_at |
| 33 | 32579_at |
| 34 | 39425_at |
| 35 | 755_at |
| 36 | 37343_at |
| 37 | 1336_s_at |
| 38 | 41097_at |
| 39 | 31786_at |

| Bayesian (43) | |
|---|---|
| 1 | 39327_at |
| 2 | 39717_g_at |
| 3 | 33412_at |
| 4 | 40763_at |
| 5 | 31575_f_at |
| 6 | 1039_s_at |
| 7 | 36873_at |
| 8 | 1914_at |
| 9 | 32529_at |
| 10 | 32977_at |
| 11 | 37724_at |
| 12 | 39338_at |
| 13 | 1973_s_at |
| 14 | 31444_s_at |
| 15 | 36897_at |
| 16 | 34210_at |
| 17 | 266_s_at |
| 18 | 769_s_at |
| 19 | 36536_at |
| 20 | 38413_at |
| 21 | 41170_at |
| 22 | 37680_at |
| 23 | 38518_at |
| 24 | 36514_at |
| 25 | 40396_at |
| 26 | 40417_at |
| 27 | 486_at |
| 28 | 32232_at |

| Yeoh et al (43) | |
|---|---|
| 1 | 34306_at |
| 2 | 40797_at |
| 3 | 33412_at |
| 4 | 39338_at |
| 5 | 2062_at |
| 6 | 32193_at |
| 7 | 40518_at |
| 8 | 36777_at |
| 9 | 32207_at |
| 10 | 33859_at |
| 11 | 38391_at |
| 12 | 40763_at |
| 13 | 1126_s_at |
| 14 | 34721_at |
| 15 | 37809_at |
| 16 | 34861_at |
| 17 | 38194_s_at |
| 18 | 657_at |
| 19 | 36918_at |
| 20 | 32215_i_at |
| 21 | 38160_at |
| 22 | 38413_at |
| 23 | 1389_at |
| 24 | 34168_at |
| 25 | 2036_s_at |
| 26 | 40522_at |
| 27 | 854_at |
| 28 | 40067_at |
| 29 | 39756_g_at |
| 30 | 36940_at |
| 31 | 36935_at |
| 32 | 32134_at |
| 33 | 39379_at |
| 34 | 40493_at |
| 35 | 769_s_at |
| 36 | 40415_at |
| 37 | 35983_at |
| 38 | 40519_at |
| 39 | 794_at |

| Bayesian (19) | |
|---|---|
| 1 | 33355_at |
| 2 | 36203_at |
| 3 | 37306_at |
| 4 | 1081_at |
| 5 | 40454_at |
| 6 | 1616_at |
| 7 | 36452_at |
| 8 | 35727_at |
| 9 | 753_at |
| 10 | 32069_at |
| 11 | 1797_at |
| 12 | 362_at |
| 13 | 39829_at |
| 14 | 717_at |
| 15 | 854_at |
| 16 | 38285_at |
| 17 | 41138_at |
| 18 | 40113_at |
| 19 | 36069_at |
| 20 | 37579_at |
| 21 | 37225_at |
| 22 | 39614_at |
| 23 | 38748_at |
| 24 | 33513_at |
| 25 | 39729_at |
| 26 | 37493_at |
| 27 | 1788_s_at |
| 28 | 39929_at |
| 29 | 37701_at |
| 30 | 34335_at |

| Yeoh et al (119) | |
|---|---|
| 1 | 41146_at |
| 2 | 1287_at |
| 3 | 32063_at |
| 4 | 33355_at |
| 5 | 430_at |
| 6 | 40454_at |
| 7 | 753_at |
| 8 | 33821_at |
| 9 | 39614_at |
| 10 | 38340_at |
| 11 | 1786_at |
| 12 | 39929_at |
| 13 | 39379_at |
| 14 | 717_at |
| 15 | 362_at |
| 16 | 33513_at |
| 17 | 37225_at |
| 18 | 854_at |
| 19 | 35974_at |
| 20 | 36452_at |
| 21 | 40648_at |
| 22 | 38393_at |
| 23 | 38994_at |
| 24 | 34861_at |
| 25 | 38748_at |
| 26 | 40113_at |
| 27 | 36179_at |
| 28 | 37493_at |
| 29 | 578_at |
| 30 | 41017_at |
| 31 | 37625_at |
| 32 | 38679_g_at |
| 33 | 1389_at |
| 34 | 34783_s_at |
| 35 | 36959_at |
| 36 | 39864_at |
| 37 | 41862_at |
| 38 | 41425_at |
| 39 | 37177_at |

| Bayesian (922) | |
|---|---|
| 1 | 1636_g_at |
| 2 | 39730_at |
| 3 | 37006_at |
| 4 | 1081_at |
| 5 | 33131_at |
| 6 | 36031_at |
| 7 | 38968_at |
| 8 | 40202_at |
| 9 | 36203_at |
| 10 | 38119_at |
| 11 | 36601_at |
| 12 | 32260_at |
| 13 | 34550_at |
| 14 | 37399_at |
| 15 | 38994_at |
| 16 | 1583_at |
| 17 | 1461_at |
| 18 | 33885_at |
| 19 | 34889_at |
| 20 | 40790_at |
| 21 | 38276_at |
| 22 | 36543_at |
| 23 | 36591_at |
| 24 | 37600_at |
| 25 | 675_at |
| 26 | 1295_at |
| 27 | 37732_at |
| 28 | 669_s_at |
| 29 | 38313_at |
| 30 | 35256_at |

| Yeoh et al (922) | |
|---|---|
| 1 | 1637_at |
| 2 | 36650_at |
| 3 | 40196_at |
| 4 | 1635_at |
| 5 | 33775_s_at |
| 6 | 1636_g_at |
| 7 | 41295_at |
| 8 | 37600_at |
| 9 | 37012_at |
| 10 | 39225_at |
| 11 | 1326_at |
| 12 | 34362_at |
| 13 | 33150_at |
| 14 | 40051_at |
| 15 | 39061_at |
| 16 | 33172_at |
| 17 | 37399_at |
| 18 | 317_at |
| 19 | 40953_at |
| 20 | 330_s_at |
| 21 | 40504_at |
| 22 | 38578_at |
| 23 | 39044_s_at |
| 24 | 36634_at |
| 25 | 38119_at |
| 26 | 32552_at |
| 27 | 33228_g_at |
| 28 | 37006_at |
| 29 | 38641_at |
| 30 | 38220_at |
| 31 | 1211_s_at |
| 32 | 39730_at |
| 33 | 36591_at |
| 34 | 36035_at |
| 35 | 980_at |
| 36 | 671_at |
| 37 | 40698_at |
| 38 | 39330_s_at |
| 39 | 1983_at |

| Bayesian Hyperdyploid | |
|---|---|
| 1 | 35688_g_at |
| 2 | 32139_at |
| 3 | 40296_at |
| 4 | 149_at |
| 5 | 37251_at |
| 6 | 37014_at |
| 7 | 1272_at |
| 8 | 40771_at |
| 9 | 32941_at |
| 10 | 38968_at |
| 11 | 37001_at |
| 12 | 37421_f_at |
| 13 | 39755_at |
| 14 | 33936_at |
| 15 | 40370_f_at |
| 16 | 32788_at |
| 17 | 34990_at |
| 18 | 40202_at |
| 19 | 36927_at |
| 20 | 2031_s_at |
| 21 | 40518_at |
| 22 | 38336_at |
| 23 | 39059_at |
| 24 | 547_s_at |
| 25 | 36048_at |
| 26 | 33061_at |
| 27 | 40712_at |
| 28 | 39290_f_at |
| 29 | 35408_i_at |
| 30 | 36103_at |

| Yeoh *et al.* Hyperdyploid | |
|---|---|
| 1 | 36620_at |
| 2 | 37350_at |
| 3 | 171_at |
| 4 | 37677_at |
| 5 | 41724_at |
| 6 | 32207_at |
| 7 | 38738_at |
| 8 | 40480_s_at |
| 9 | 38518_at |
| 10 | 41132_r_at |
| 11 | 31492_at |
| 12 | 38317_at |
| 13 | 40998_at |
| 14 | 35688_g_at |
| 15 | 40903_at |
| 16 | 36489_at |
| 17 | 1520_s_at |
| 18 | 35939_s_at |
| 19 | 38604_at |
| 20 | 31863_at |
| 21 | 890_at |
| 22 | 39402_at |
| 23 | 41490_at |
| 24 | 34753_at |
| 25 | 40891_f_at |
| 26 | 306_s_at |
| 27 | 37640_at |
| 28 | 34829_at |
| 29 | 36169_at |
| 30 | 38968_at |
| 31 | 36128_at |
| 32 | 37014_at |
| 33 | 34374_g_at |
| 34 | 36542_at |
| 35 | 688_at |
| 36 | 955_at |
| 37 | 35816_at |
| 38 | 38459_g_at |
| 39 | 41288_at |

# Figure 8

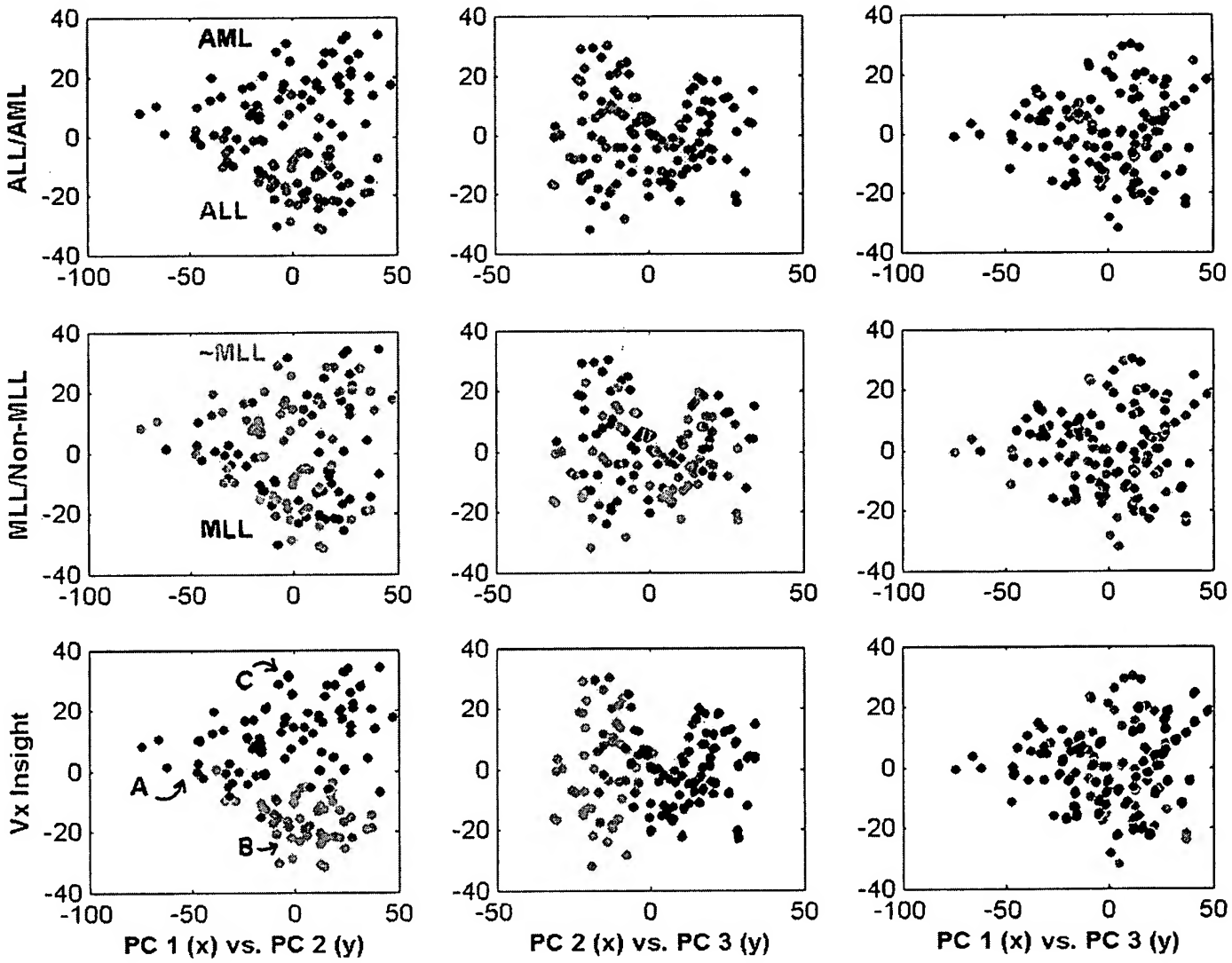

ALL/AML
MLL/Non-MLL
Vx Insight
AML
ALL
~MLL
MLL
A
B
C
PC 1 (x) vs. PC 2 (y)
PC 2 (x) vs. PC 3 (y)
PC 1 (x) vs. PC 3 (y)

Figure 9

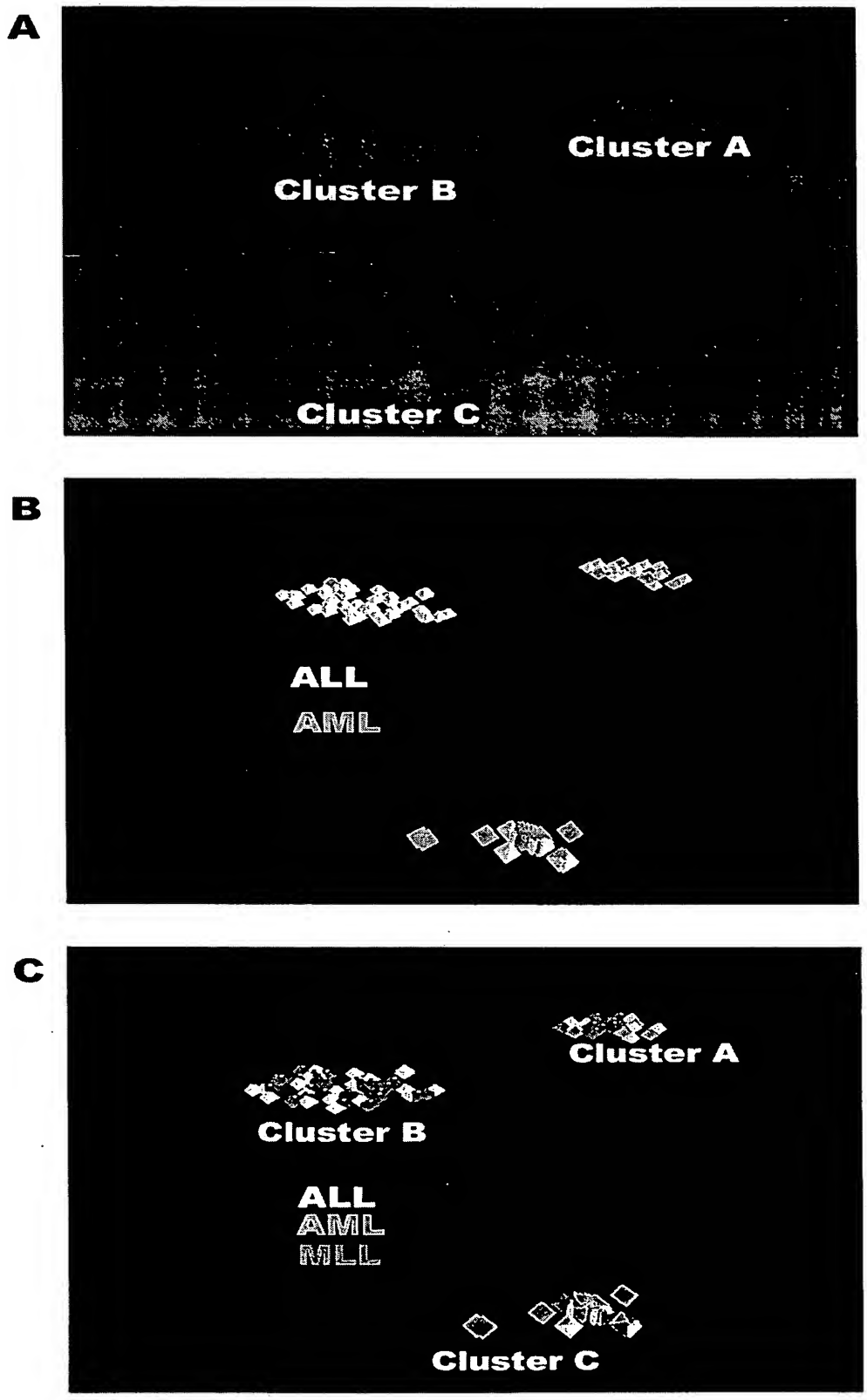

A
Cluster A
Cluster B
Cluster C
B
ALL
AML
C
Cluster A
Cluster B
ALL
AML
MLL
Cluster C

Figure 10

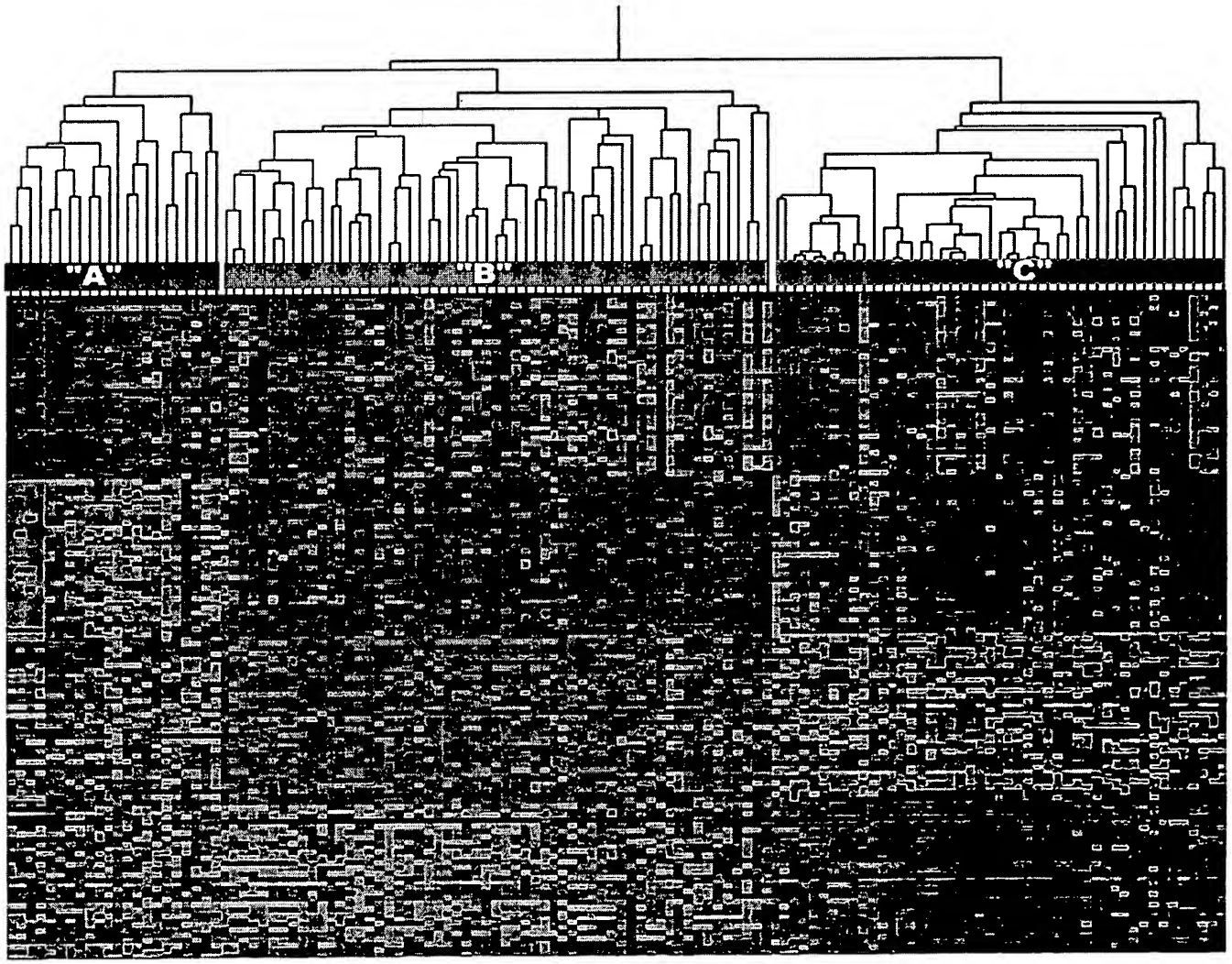
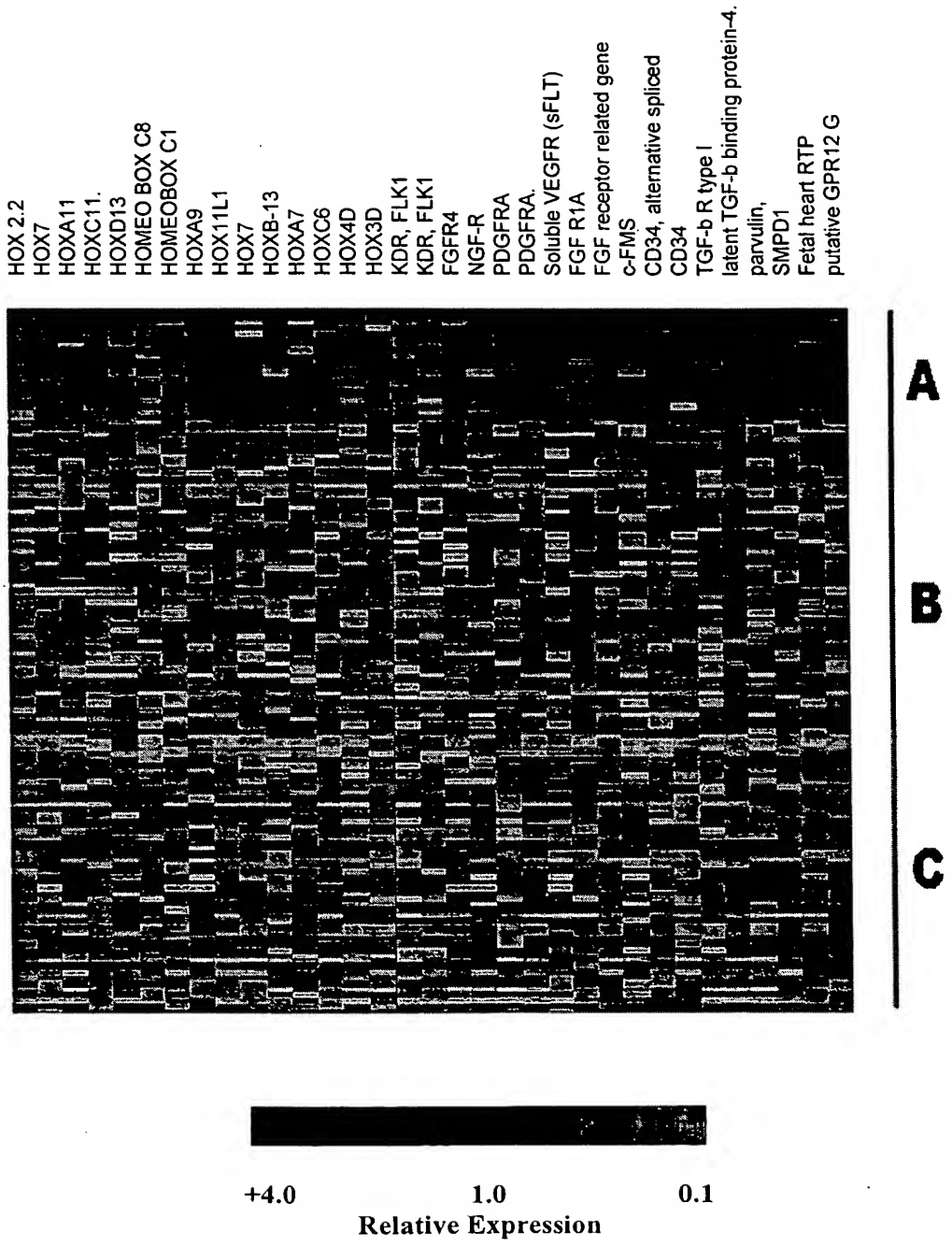



Figure 11

# Figure 12A


HOX 2.2
HOX7
HOXA11
HOXC11.
HOXD13
HOMEO BOX C8
HOMEOBOX C1
HOXA9
HOX11L1
HOX7
HOXB-13
HOXA7
HOXC6
HOX4D
HOX3D
KDR, FLK1
KDR, FLK1
FGFR4
NGF-R
PDGFRA
PDGFRA.
Soluble VEGFR (sFLT)
FGF R1A
FGF receptor related gene
c-FMS
CD34, alternative spliced
CD34
TGF-b R type I
latent TGF-b binding protein-4.
parvulin,
SMPD1
Fetal heart RTP
putative GPR12 G
A
B
C
+4.0
1.0
0.1
Relative Expression

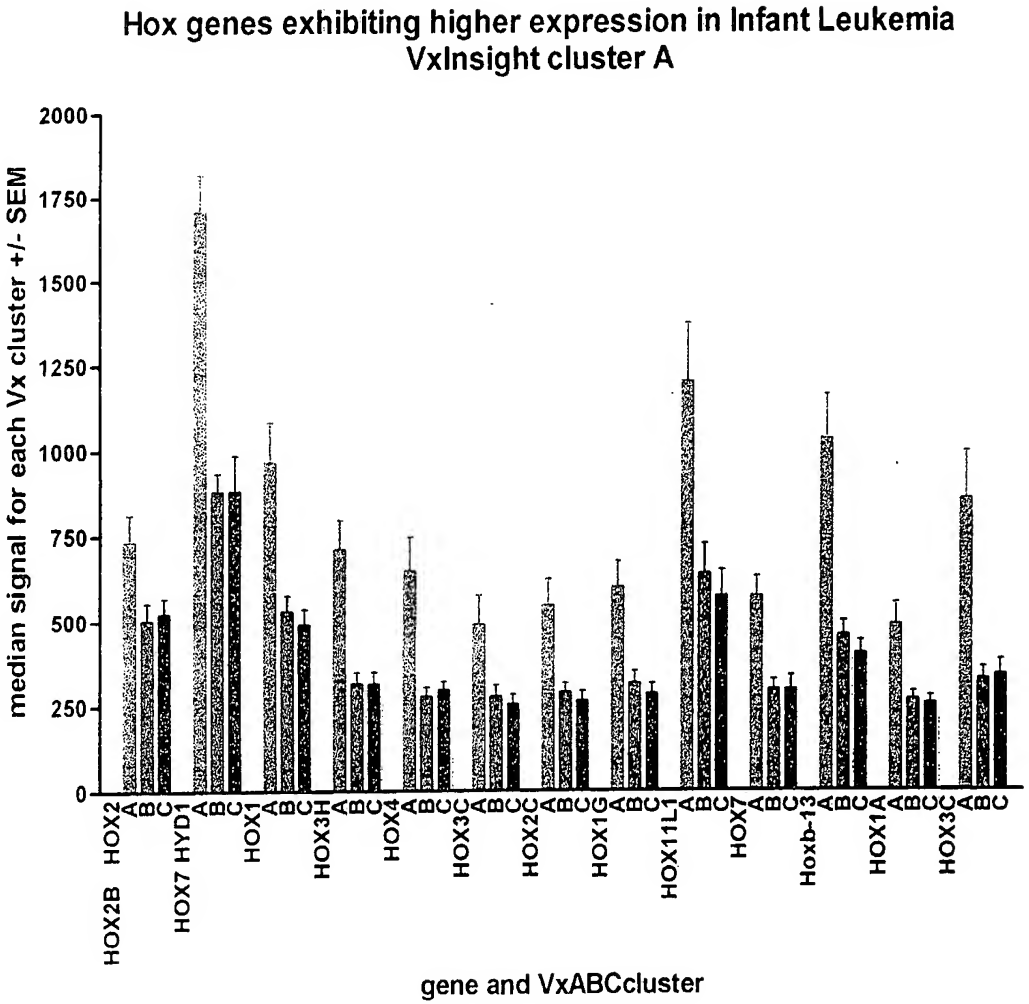

Hox genes exhibiting higher expression in Infant Leukemia
VxInsight cluster A
median signal for each Vx cluster +/- SEM
2000
1750
1500
1250
1000
750
500
250
0
HOX2B
HOX2 A B C
HOX7 HYD1 A B C
HOX1 A B C
HOX3H A B C
HOX4 A B C
HOX3C A B C
HOX2C A B C
HOX1G A B C
HOX11L1 A B C
HOX7 A B C
Hoxb-13 A B C
HOX1A A B C
HOX3C A B C
gene and VxABCcluster

Figure 12B

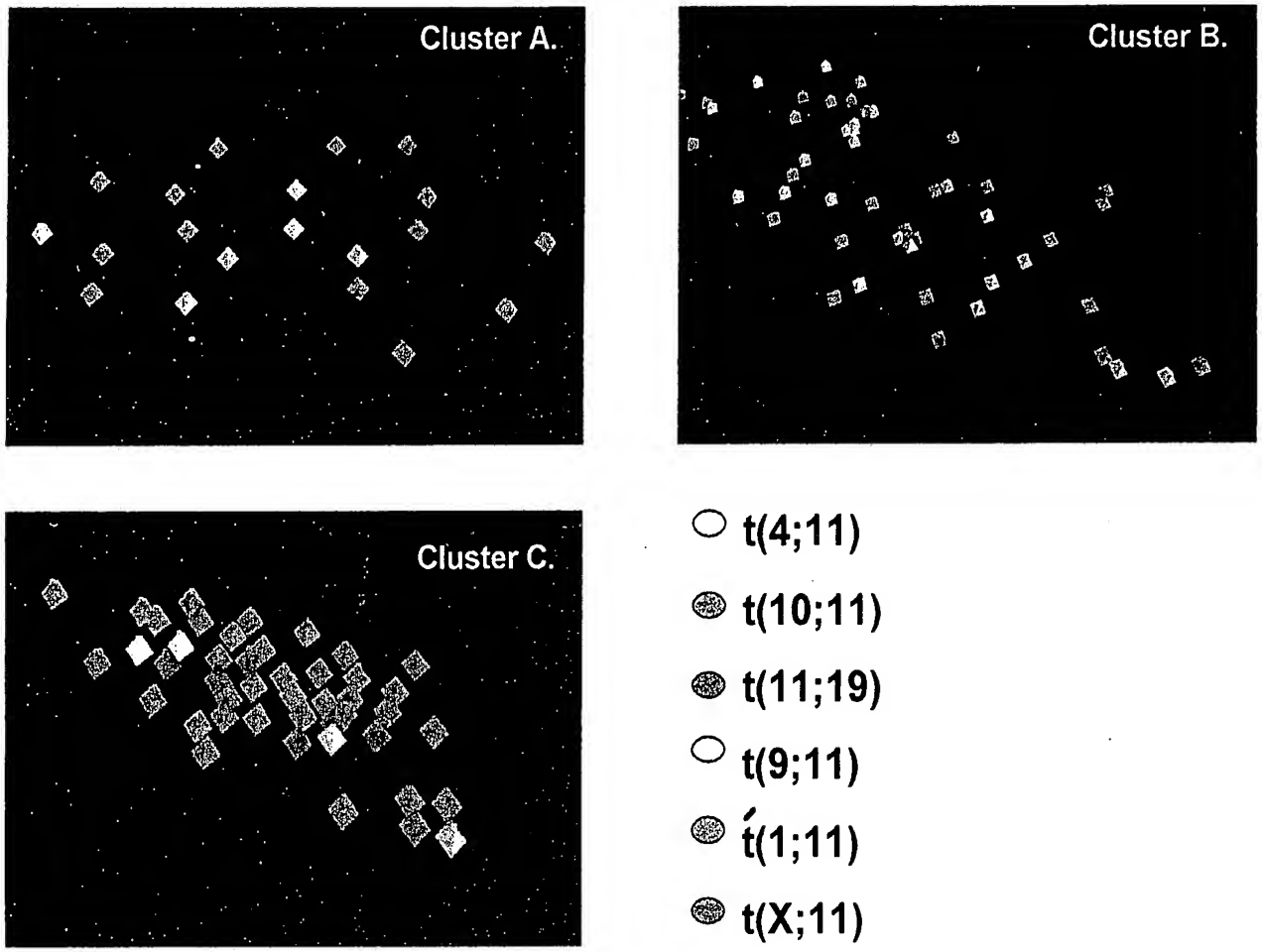

Cluster A.
Cluster B.
Cluster C.
t(4;11)
t(10;11)
t(11;19)
t(9;11)
t(1;11)
t(X;11)

**Figure 13**

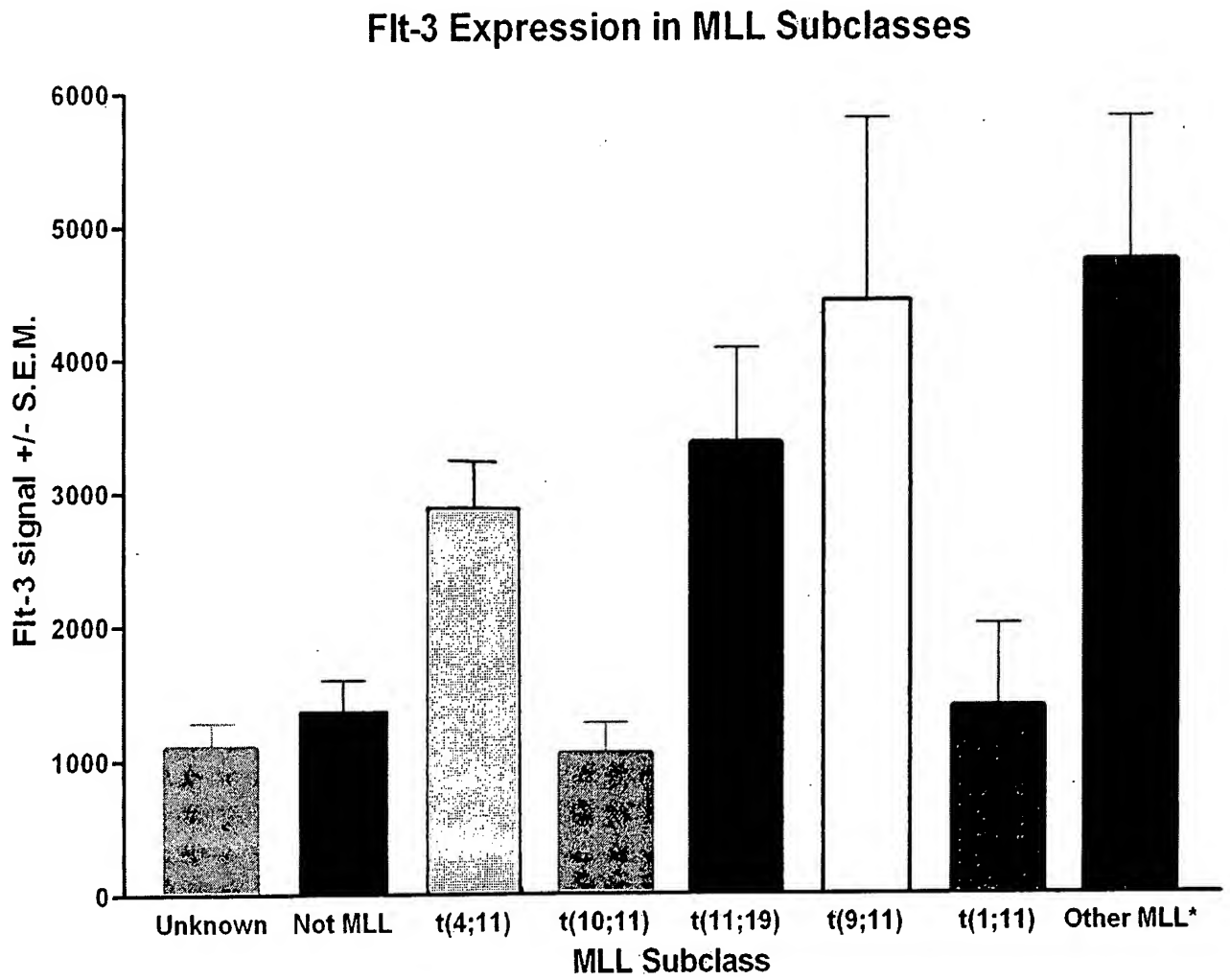

Flt-3 Expression in MLL Subclasses
Flt-3 signal +/- S.E.M.
6000
5000
4000
3000
2000
1000
0
Unknown
Not MLL
t(4;11)
t(10;11)
t(11;19)
t(9;11)
t(1;11)
Other MLL*
MLL Subclass

**Figure 14**

| Contrast t(4;11) in A vs. B | Symbol |
|---|---|
| guanosine monophosphate reductase | GMPR |
| ephrin-A3 | EFNA3 |
| jumping translocation breakpoint | JTB |
| prefoldin 5 | PFDN5 |
| nuclear factor I/X CCAAT-binding transcription factor | NFIX |
| calcium/calmodulin-dependent protein kinase CaM kinase II | CAMKG |
| fibrinogen alpha chain isoform alpha preproprotein | FGA |
| sodium channel voltage-gated type IV alpha polypeptide | SCN4A |
| small nuclear ribonucleoprotein polypeptide A | SNRPA1 |
| myosin-binding protein C slow-type | MYBPC1 |
| similar to S. cerevisiae RER1 | |
| S100 calcium-binding protein A4 | S100A4 |
| ubiquitin specific protease proto-oncogene | USP4 |
| hydroxyacyl-Coenzyme A dehydrogenase | HADHA |
| ATP synthase H transporting mitochondrial F1 complex | ATP50 |
| bone morphogenetic protein 1 isoform 4 precursor | BMP1 |
| ribosomal protein 36AL | RPL36AL |
| sorting nexin 3 | |
| chaperonin containing TCP1 subunit 8 theta | |
| transmembrane trafficking protein | TMP21 |
| eukaryotic translation initiation factor 3 subunit 4 | EIF3S4 |
| B7 protein | B7 |

| Contrast t(4;11) in A vs. B, Continuation | Symbol |
|---|---|
| kallikrein 3 prostate specific antigen | KLK3 |
| poly rC binding protein 3 | |
| small proline-rich protein 2C | SPRR2C |
| CD40 antigen | TNFRSF5 |
| ubiquitin-conjugating enzyme E2I homologous to yeast UBC9 | UBE2I |
| phosphate carrier precursor isoform 1a | PHC |
| phosphodiesterase 6G cGMP-specific rod gamma | PDE6G |
| erythroblast macrophage attacher | |
| v-yes-1 Yamaguchi sarcoma viral related oncogene homolog | LYN |
| integrin alpha 3 isoform b precursor | ITGA3 |
| 1-acylglycerol-3-phosphate O-acyltransferase | AGPAT1 |
| epididymal secretory protein 19.5kD | NPC2 |
| immunoglobulin-binding protein 1 | IGBP1 |
| eukaryotic translation initiation factor 3 subunit 7 zeta 66/67kD | EIF3S7 |
| C1q-related factor | |
| ataxin 2 related protein isoform 2 | |
| periplakin | PPL |
| erythroid differentiation and denucleation factor 1 | |
| unknown protein LOC51035 | |
| complement component 1 inhibitor | HAE |
| NADH dehydrogenase ubiquinone Fe-S protein | NDUFS3 |
| small nuclear ribonucleoprotein D2 polypeptide | SNRPD2 |

# Figure 15

| MLL vs. not MLL | MLL_t(4;11) vs NOT | MLL_t(10;11) vs NOT | MLL_t(11;19) vs NOT | MLL_t(9;11) vs NOT | MLL_ t(1;11) vs NOT | Other MLL |
|---|---|---|---|---|---|---|
| UBN1 | BMI1 | RUNX3 | H2AFY | TRADD | FTL | VPS45A |
| HCLS1 | MICB | SH3BP1 | IGHG3 | RPL26 | PBEF | PSME2 |
| KIAA0945 | S100A11 | HMGCR | FACVL1 | TCFL4 | LGALS3 | LENG4 |
| NFATC3 | CG018 | HGF | ERH | COX7C | PDXK | B2M |
| MD-1 | DOK1 | ESRRA | IRAK1 | DOC-1R | HPR | CPD |
| TRA@ | SYNGR2 | CDKN1C | IL2RG | KIAA0476 | GABARAP | UGP2 |
| RAD9 | WAS | MAP2 | RPL18 | ATP6V1G | TALDO1 | CTSL |
| KIAA0453 | FBXO9 | EN2 | SPAG6 | MARS | BCL6 | IGHG3 |
| IQGAP2 | PRKAR1A | SPR | SULT1A2 | MRPL33 | EPB72 | PEX11B |
| FBP17 | DOK1 | HXB | SOX4 | HSF1 | S100A8 | BST2 |
| FLJ12443 | LYN | TPS1 | VCP | FBP17 | RABGGTA | CASP1 |
| CD4411p13 | TIMP1 | ENDOG | IGBP1 | AHR | HIF1A | CAST |
| CRADD | ARPC2 | GALR3 | SNRPN | ZFR | CDA | B2M |
| NFATC3 | ELF4 | ORP150 | MAGED2 | KIAA0906 | PTPN12 | ASAH |
| KIAA0265 | BASP1 | SLC6A13 | AREG | PLCG2 | C20orf16 | RAB2 |
| H2AFO | BID | CG018 | TACTILE | RAB33A | TIMP1 | RAG1 |
| KRT8 | NDUFB8 | RARRES2 | CD97 | PSMA4 | CSK | TRA@ |
| C20orf14 | ITGB1 | CHD3 | LPXN | TRAP1 | MAD | ISG15 |
| BAG1 | MLCB | KNSL2 | TMSNB | PRKCB1 | CTSD | EIF2S1 |
| CGI-57 | ATP6V0E | TNFSF9 | ASMTL | RASA1 | PTENP1 | CRA |
| 13033 | COX7C | ENDOGL1 | IMPDH2 | TP53BP1 | CUTL1 | SCYA5 |
| CHC1L | MAGED2 | MGLL | LMNA | INPP5D | FLOT2 | MADH2 |
| KIAA0766 | NUCB2 | SLC7A1 | CD72 | NME2 | MPP1 | LTBR |
| PSR | ACTR2 | MCCC2 | CD79A | HMG14 | CKAP4 | TNFSF10 |
| DPYSL3 | OS-9 | GIT2 | MDK | MGC2840 | DR1 | ARPC2 |
| SERPINB8 | HLA-F | GEM | SERPINE1 | TETRAN | HSPC022 | PPP2R5C |
| HRI | PCMT1 | | CIC | PIK3CD | AKR1C2 | CDK2 |

**Figure 16**

| Bayesian t(4;11) | SVM t(4;11) | Fuzzy t(4;11) | DA t(4;11) |
|---|---|---|---|
| RPL5 | CKAP4 | POU4F1 | TRA@ |
| TRA@ | BAX | APOC2 | CST3 |
| KIAA1157 | CTGF | ECGF1 | NFATC3 |
| STS | ICAM3 | S100A12 | BLNK |
| NFATC3 | PROML1 | ITGAM | SDR1 |
| KIAA0542 | NR1H3 | HK3 | CTGF |
| UMPK | BLNK | CES1 | KIAA0585 |
| RPS16 | SDR1 | MNDA | ICAM3 |
| BLNK | CST3 | CSPG2 | KIAA0020 |
| KIAA0970 | RAB33A | RAB32 | PKD2 |
| NACA | LY117 | CXX1 | BLK |
| RPS28 | PLAGL1 | EPB41L3 | RAB33A |
| NFATC3 | DNTT | SCYA5 | NFATC3 |
| RAD9 | SUCLA2 | CKAP4 | LCP2 |
| JUND | TANK | CTSG | KIAA1157 |
| HAT | MN1 | MACS | STX1A |
| RPL8 | GBP1 | HDC | BCL11A |
| RPS9 | RDX | ITGA7 | H2BFL |
| SYNGR1 | MACS | FCER1G | LSP1 |
| DKFZP564M1462 | LC27 | HOMER-3 | PLAGL1 |
| RPL32 | LSP1 | CSPG2 | SLC35A3 |
| UBN1 | KIAA0020 | DNCI1 | TANK |
| RRBP1 | RGS13 | LC27 | RUNX1 |
| KIAA0907 | ICAP-1A | CSTA | RECQL |
| | STX1A | GS3955 | GNA15 |
| | LOC54103 | GRN | LOC57187 |
| | FBN1 | MSE55 | CSRP2 |
| | KIAA0471 | CRA | CD72 |
| | SCHIP1 | ITGB2 | KIAA0471 |
| | KIR3DL1 | ALOX5 | RDX |
| | LCCP | DNTT | STAT12 |
| | LOC57187 | ICAM3 | FLT3 |
| | HRY | SNN | LOC54103 |
| | TIMP1 | S100A11 | CKAP4 |
| | KIAA0429 | TLR2 | NFATC3 |
| | BID | IL6 | CTSH |
| | ZW10 | SLC16A3 | ICAP-1A |
| | GTPBP1 | PECAM1 | HSU79252 |
| | PFN2 | DXS9928E | SDHC |
| | UBE2G1 | JUN | FNBP3 |

| Bayesian MLL | SVM MLL | Fuzzy MLL | DA MLL |
|---|---|---|---|
| UBN1 | MKI67 | HDC | NR1H3 |
| HCLS1 | UTRN | POU4F1 | CUL2 |
| KIAA0945 | C8orf2 | SPAG6 | FLT3 |
| NFATC3 | ACTG1 | HBZ | PRH1 |
| MD-1 | NUP153 | GPM6B | RBM10 |
| TRA@ | GAS7 | CSRP2 | HOXA9 |
| RAD9 | UMPK | CHRNA7 | NFATC3 |
| KIAA0453 | ERBB3 | ITGA2B | NIPSNAP1 |
| IQGAP2 | TMOD | CCND2 | FLT3 |
| FBP17 | CAD | TRB@ | AF038169 |
| FLJ12443 | SLC25A16 | LC27 | PROML1 |
| CRADD | AHCY | CREM | ALOX5AP |
| NFATC3 | TOP3B | AKR1C3 | HSPB2 |
| KIAA0265 | BAIAP3 | H2AFN | SMAP |
| H2AFO | PRKCQ | H3FB | ADCYAP1 |
| KRT8 | PSMF1 | GATA2 | DKFZP586I111 |
| TOM | TRIM33 | ALOX5 | GIT2 |
| BAG1 | PPIC | FOLR3 | MMP1 |
| CGI-57 | FLT3 | CD3D | IRAK1 |
| CHC1L | MDH1 | MME | MME |
| KIAA0766 | MAP4 | IL6 | TNFRSF5 |
| KIAA0585 | LILRA3 | KIAA0453 | MGST3 |
| DPYSL3 | STAT4A | DKFZP586I111 | RNAHP |
| SERPINB8 | BIK | RPP14 | CD38 |
| | D123 | KLF1 | KIAA1218 |
| | KIAA0806 | CSPG4 | CAPG |
| | ZNF146 | VRP | MSX1 |
| | TOP2B | PRL | KIAA0976 |
| | XRCC5 | PRKCZ | SUPT4H1 |
| | NCOR1 | OSTF1 | CDK5R2 |
| | CFLAR | HOXB2 | RECQL |
| | CD37 | PSMD13 | LGALS1 |
| | ACK1 | KIAA0960 | PNLIPRP1 |
| | BAT8 | IGHG3 | GPM6B |
| | B1 | M6A | FBN1 |
| | KIAA0595 | NR4A3 | IL17R |
| | LCE | KIAA0766 | TLR1 |
| | CBL | PDGFA | LU |
| | KIAA0470 | DLK1 | MAPK9 |
| | LIF | TERF1 | LIM |

# Figure 17

| Contrast t(4;11) vs. NOT | | Contrast MLL vs. NOT |
|---|---|---|
| B lymphoid tyrosine kinase | | fms-related tyrosine kinase 3 |
| short-chain dehydrogenase/reductase 1 | | prominin mouse like 1 |
| FK506 binding protein 12-rapamycin associated protein 1 | | fms-related tyrosine kinase 3 |
| protein kinase D2 | | FK506 binding protein 12-rapamycin associated protein 1 |
| deoxynucleotidyltransferase terminal | | cysteine and glycine-rich protein 2 |
| cystatin C amyloid angiopathy and cerebral hemorrhage | | phosphoserine aminotransferase |
| B cell linker protein | | B lymphoid tyrosine kinase |
| CD19 antigen | | villin 2 |
| runt-related transcription factor 1 acute myeloid leukemia 1 aml1 | | KIAA0766 gene product |
| regulator of G-protein signalling 16 | | beta-tubulin cofactor D |
| hypothetical protein FLJ10173 NM_022893 B-cell CLL/lymphoma 11A | | H2B histone family member Q |
| purinergic receptor P2X ligand-gated ion channel 5 | | purinergic receptor P2X ligand-gated ion channel 5 |
| villin 2 | | integrin alpha 4 precursor |
| guanine nucleotide binding protein G protein alpha 15 Gq class | | phosphorylase kinase gamma 1 muscle |
| myosin light polypeptide 1 alkali skeletal fast | | CD72 antigen |
| myristoylated alanine-rich protein kinase C substrate | | KIAA0189 gene product |
| intercellular adhesion molecule 3 precursor | | Meis1 homolog |
| hypothetical protein | | uridine monophosphate kinase |
| MAD mothers against decapentaplegic Drosophila homolog 2 | | fibrillin 1 |
| Wilms tumor 1 isoform A | | guanine nucleotide binding protein G protein alpha 15 Gq class |
| cathepsin H | | KIAA0676 protein |
| Wilms tumor associated protein | | amyloid beta A4 precursor protein protease nexin-II Alzheimer disease |

# Figure 18